



FIG. 1

SP22		MASKRALVILAKGAEEMETVIPVDIMRRAGIKVTVAGLAG	
	1		40
DJ-1		MASKRALVILAKGAEEMETVIPVDVMRRAGIKVTVAGLAG	
		Peptide 1	
SP22		KDPVQCSRDVVICPDTSLEEAKTQGPYDVVVLPGGNLGAQ	
	41		80
DJ-1		KDPVQCSRDVVICPDASLEDKKEGPYDVVVLPGGNLGAQ	
SP22		NLSESALVKEILKEQENRKGLIAAICAGPTALLAHEVGFG	
	81		120
DJ-1		NLSESAAVKEILKEQENRKGLIAAICAGPTALLAHEIGCG	
		Peptide 2	
SP22		CKVTSHPLAKDKMMNGSHYSYSESRVEKDGLILTSRGP	
	121		160
DJ-1		SKVTTHPLAKDKMMNGGHYTYSENVEKDGLILTSRGP	
		Peptide 3 Peptide 4	
SP22		SFEFALAIVEALSGKDMANQVKAPLVLKD	
	161		189
DJ-1		SFEFALAIVEALNGKEVAAQVKAPLVLKD	

FIG. 2

1 A gctgtgcagagccgtctggcaggggtgacctcctaaagggatattccatctttattaatcattag 65

66 A tagtgtgggtcagagacttagcaccattgggtctcccccaacctgggtccagacatttcagcagttta 130

131 A tcggaacagcaacaacagcaacaaaaccttcaaaatttacaagtctttaagaaatagaaATGgca 195
 B tggcttcgctgggtggaggaggcgcggtgcaggtctttaagaaatagaaATGgca
 C ttgaacctATGttgcactgttgaagttctccacttacacagcctattttatggca

1 M L H C G V L H L H S L F M A 15

196 tccaaaagagctctgggtcatcctagccaaaggagcagaggagatggagacagtgattcctgtgga 260
 16 S K R A L V I L A K G A E E M E T V I P V D 37

261 catcatgcggcgagctgggattaaagtcccggttgacggcttgggtgggaaggacccccgtgcagt 325
 38 I M R R A G I K V T V A G L A G K D P V O 58
 Peptide 1

326 gtagccgtgatgtagtgatttgtccggataccagtctggaagaagcaaaaacacagggaccatac 390
 59 C S R D V V I C P D T S L E E A K T Q G P Y 80

391 gatgtgggttgttcttccaggaggaaatctgggtgcacagaacttatctgagtcggcttttggtgaa 455
 81 D V V V L P G G N L G A Q N L S E S A L V K 102

456 ggagatcctcaaggagcaggagaacaggaagggcctcatagctgccatctgtgcgggtcctacgg 520
 103 E I L K E Q E N R K G L I A A I C A G P T 123
 Peptide 2

521 ccctgctgggtcacgaagtaggctttggatgcaaggttacatcgccaccattggctaaggacaaa 585
 124 A L L A H E V G F G C K V T S H P L A K D K 145
 Peptide 3

586 atgatgaacggcagtcactacagctactcagagagccgtgtggagaaggacggcctcctcctcac 650
 146 M M N G S H Y S Y S E S R V E K D G L I L T 167
 Peptide 4

651 cagccgtgggcctgggaccagcttcgagtttgcgctggccattgtggaggcactcagtggaagg 715
 168 S R G P G T S F E F A L A I V E A L S G K 188

716 acatggctaaccaagtgaaggccccgcttgttctcaaagacTAGagagcccaagccctggaccct 780
 189 D M A N Q V K A P L V L K D * 202

781 ggacccccaggctgagcaggcattggaagcccactagagagaccacagcccagtgaacctggcat 845

846 tggaagcccactagtgtgtccacagcccagtgaacctcaggaactaacgtgtgaagtagcccgct 910

911 gctcaggaatctcgccttggctctgtactattctgagccttgctagtagaataaacagttcccca 975

976 agctc*c*tgacggct* 989

Fig. 3

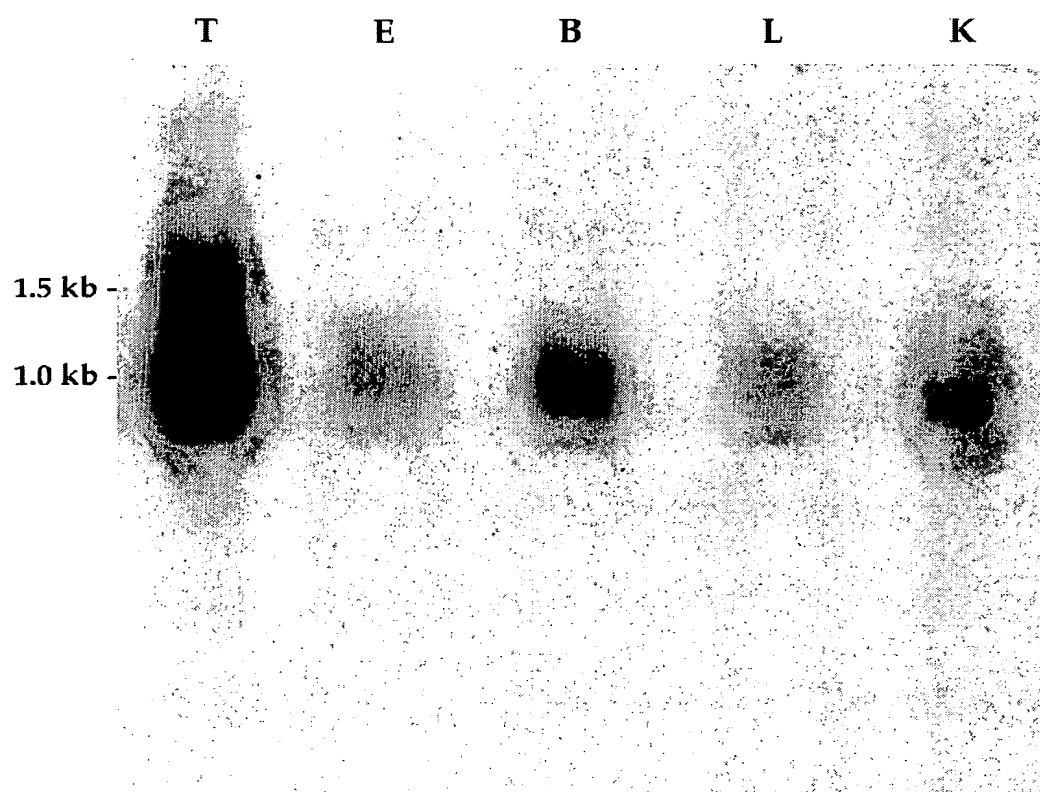


Fig. 4

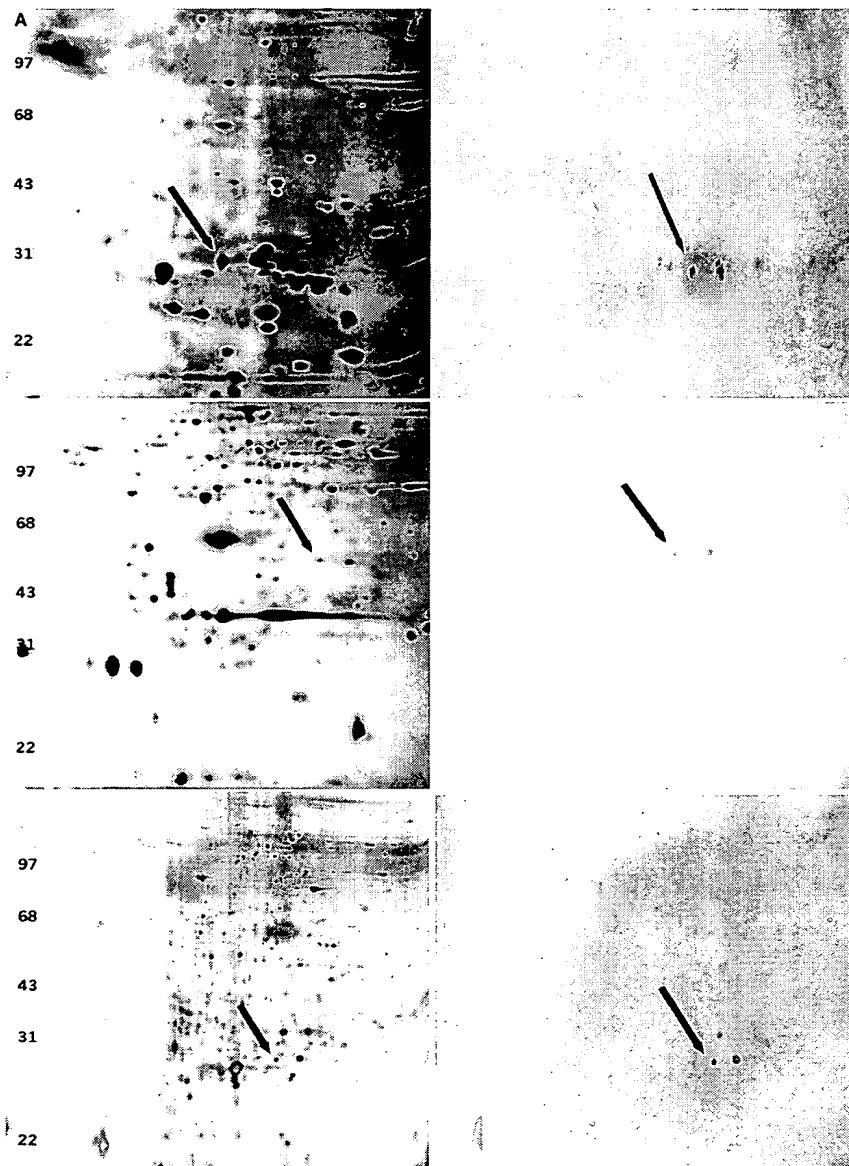


Fig. 5

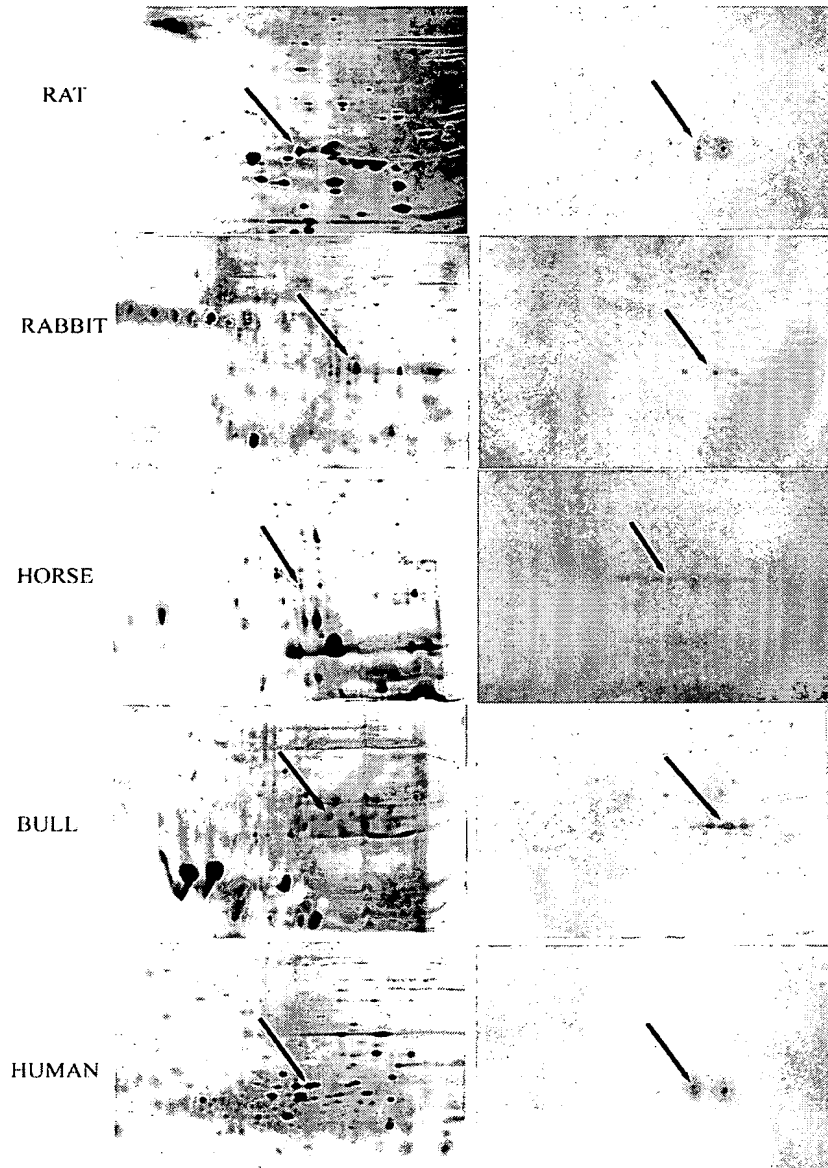
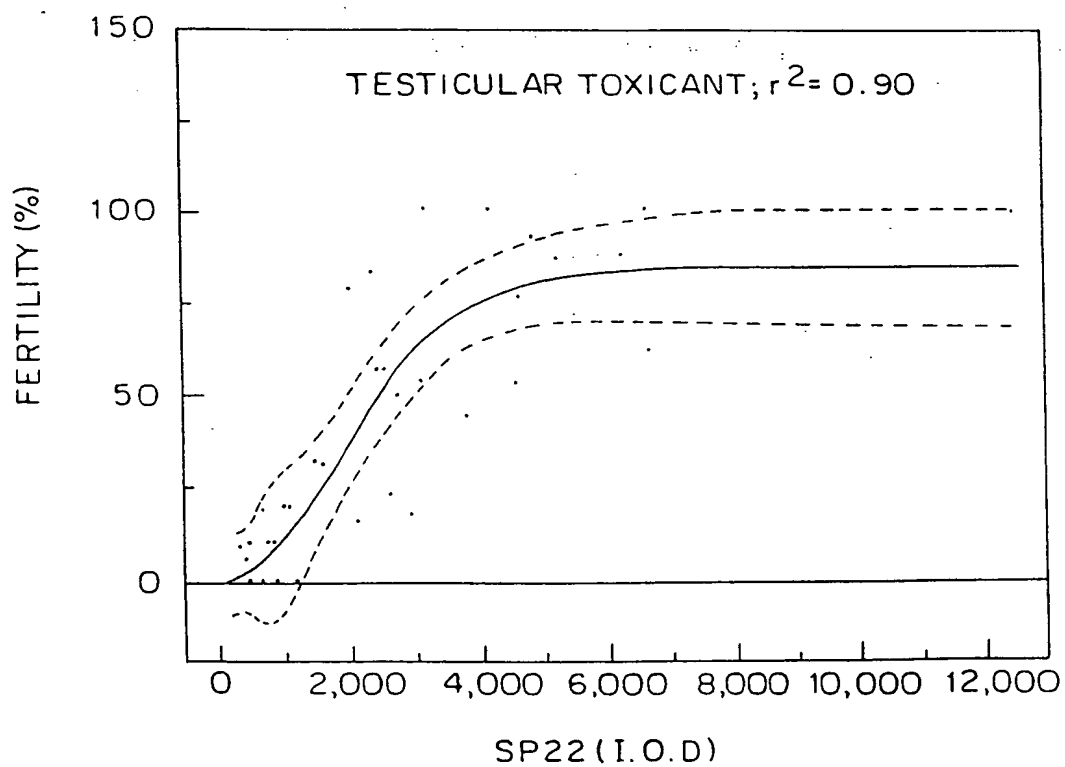
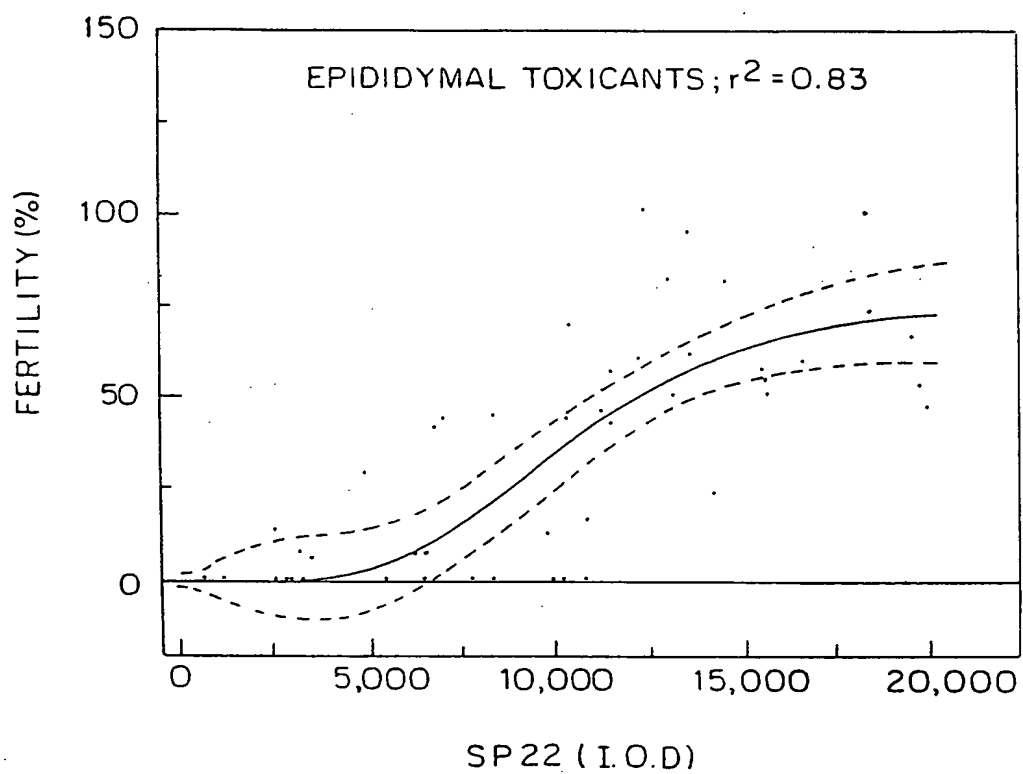
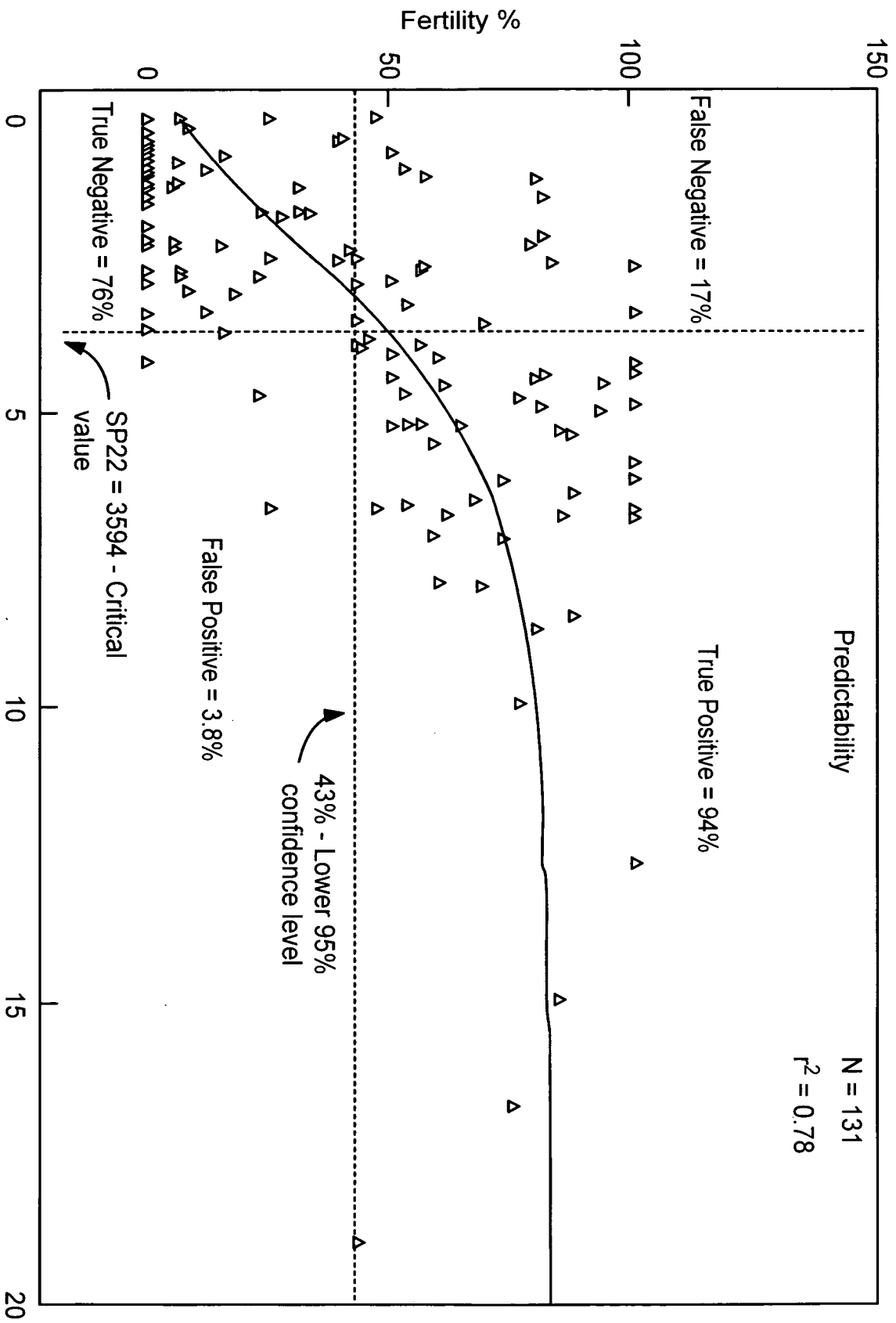


FIG. 6





SP22IOD $\times 10^3$

FIG. 7

FIG. 8-1
FIG. 8-2
FIG. 8-3

FIG. 8

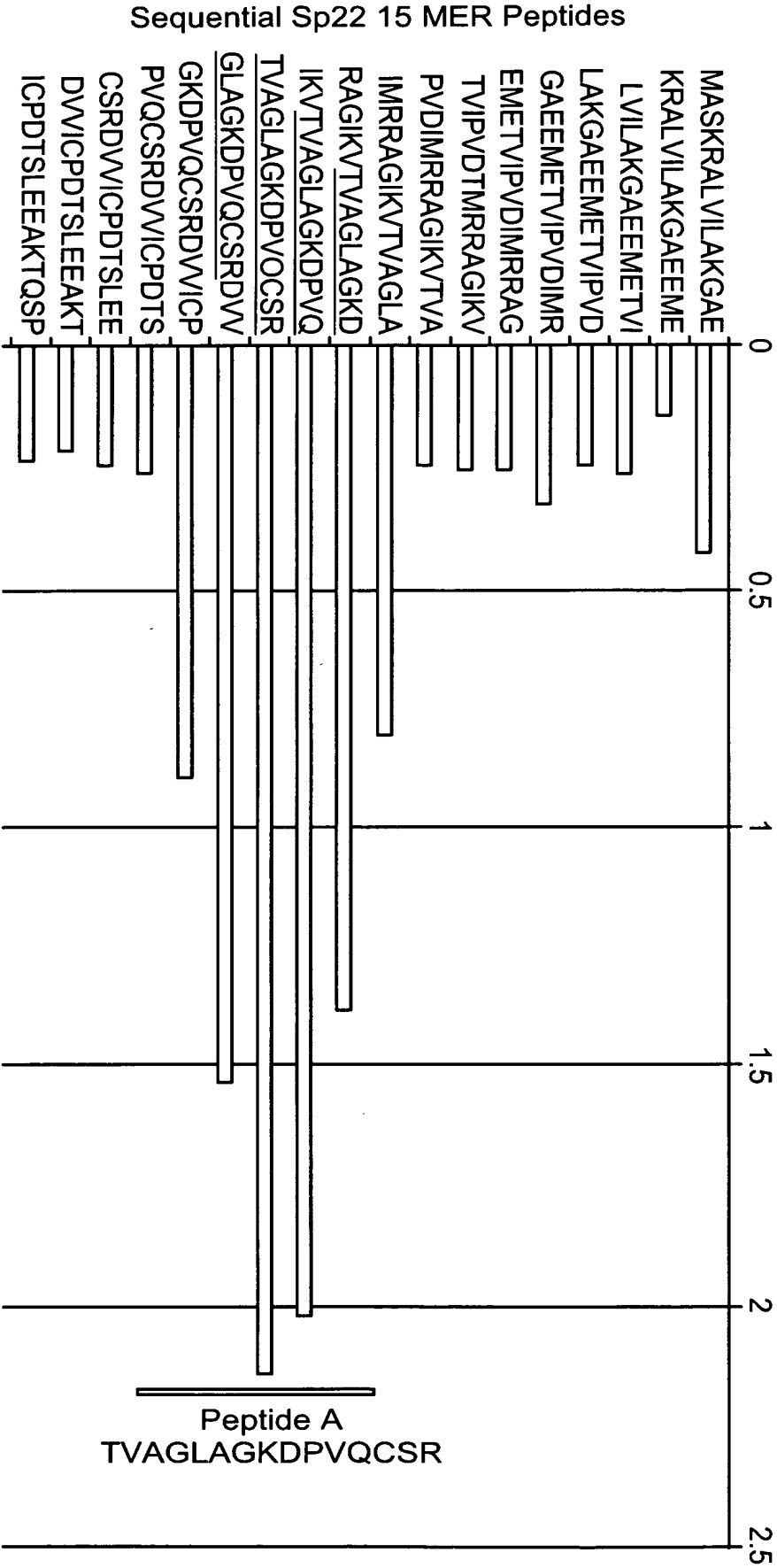


FIG. 8-1

Sequential Sp22 15 MER Peptides

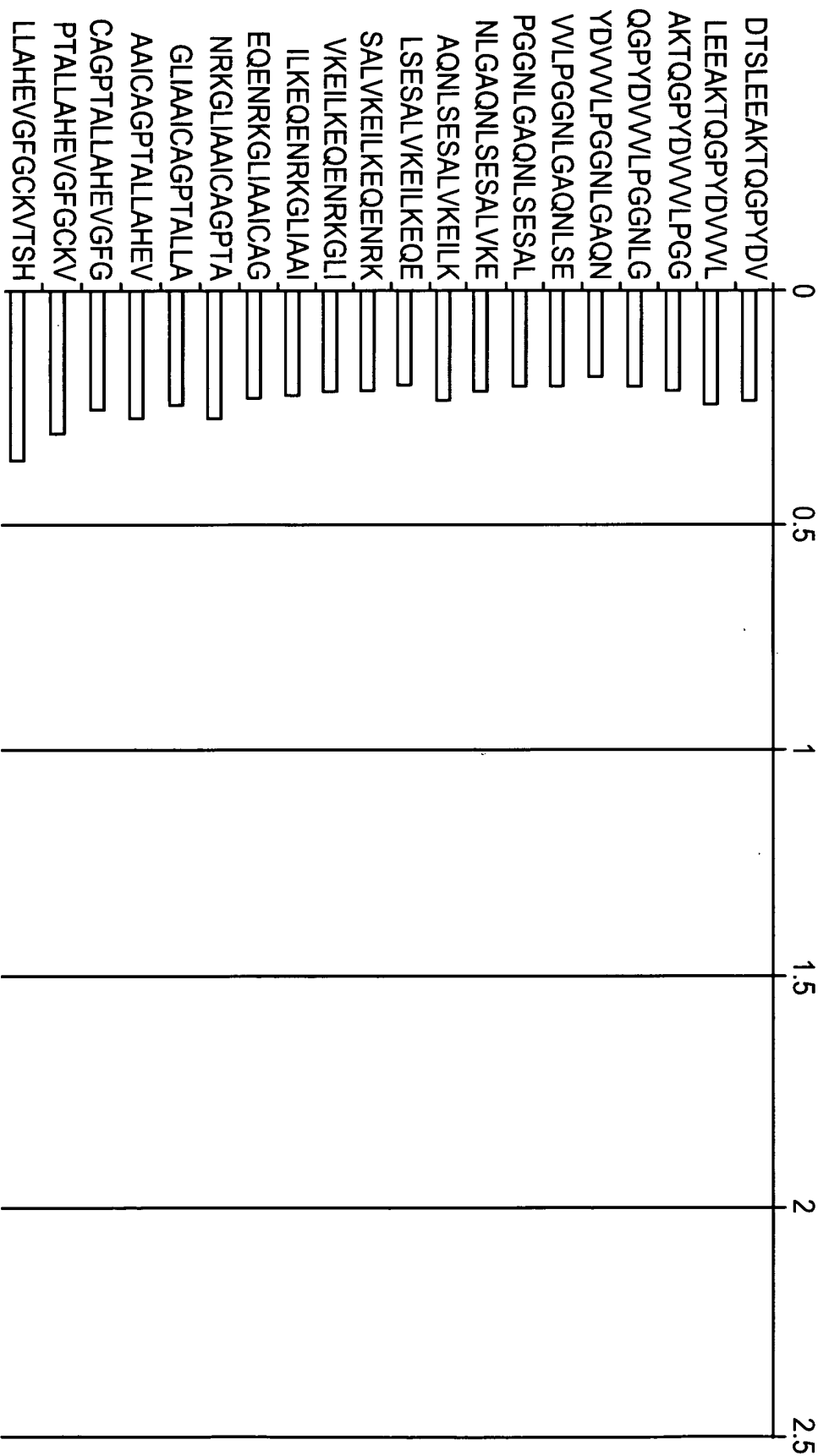


FIG. 8-2

Sequential Sp22 15 MER Peptides

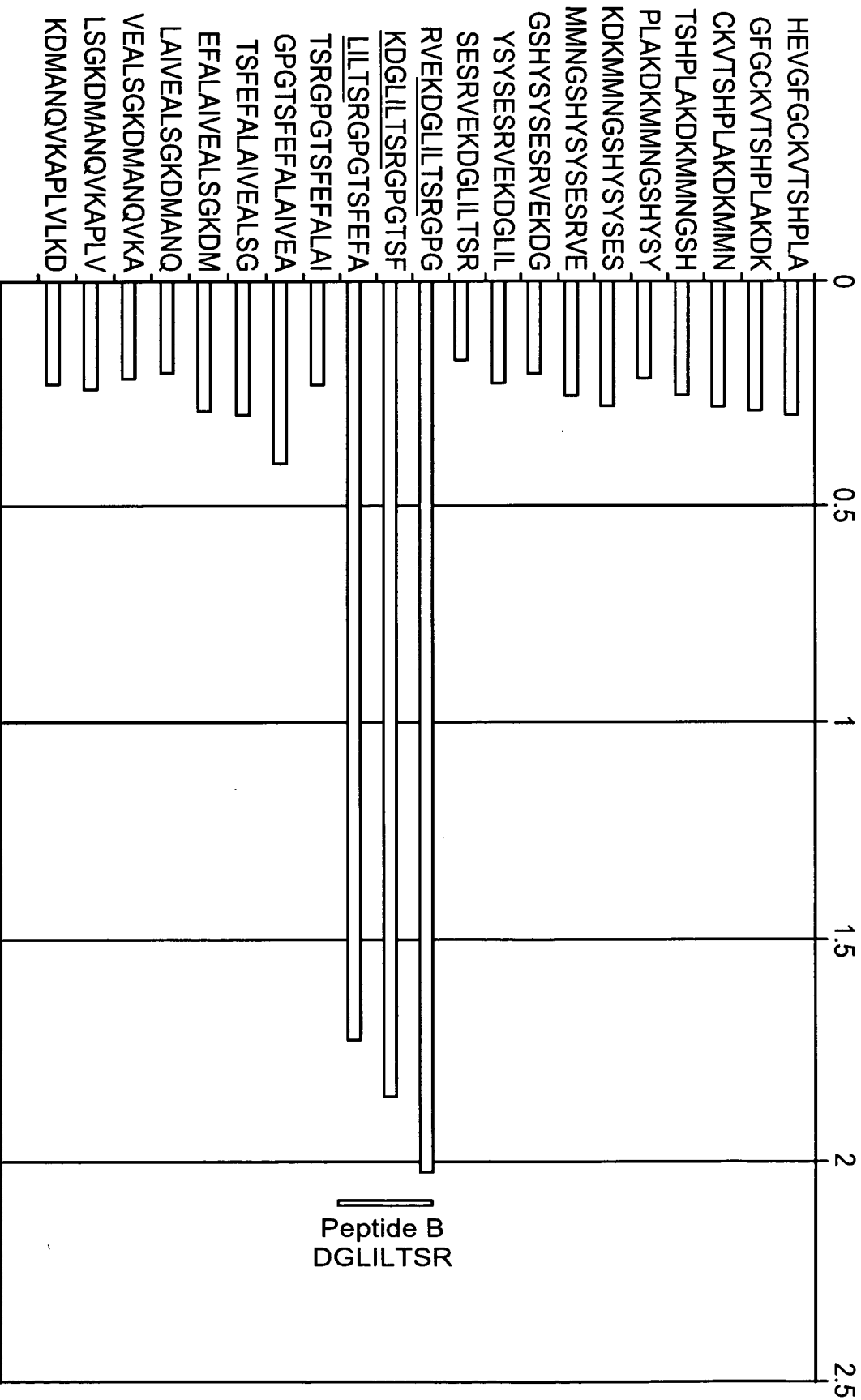


FIG. 8-3

Fig. 9

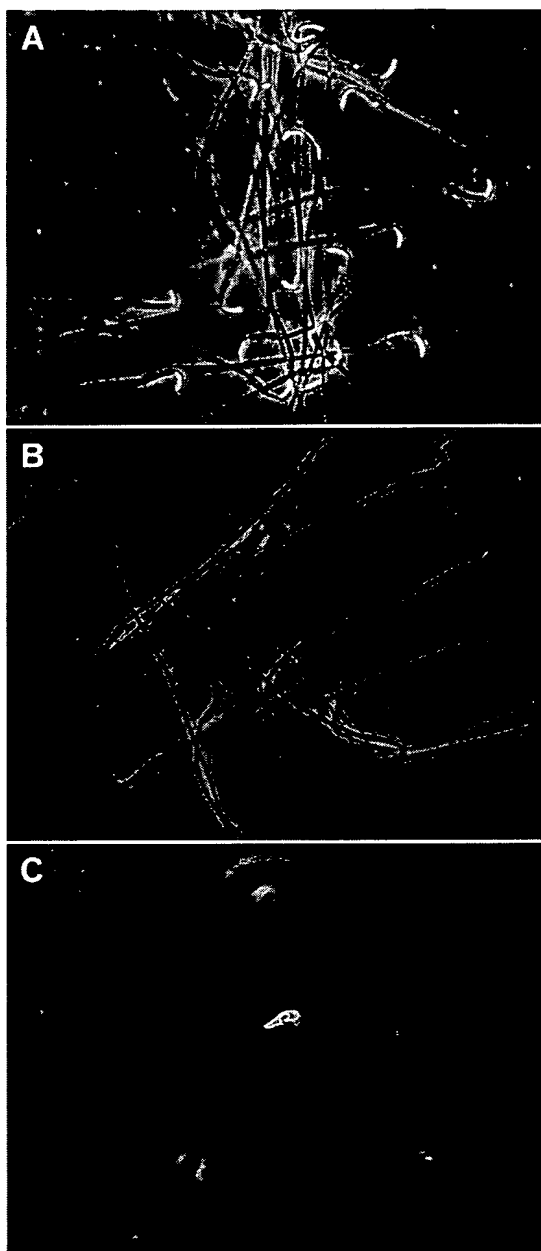


Fig. 10

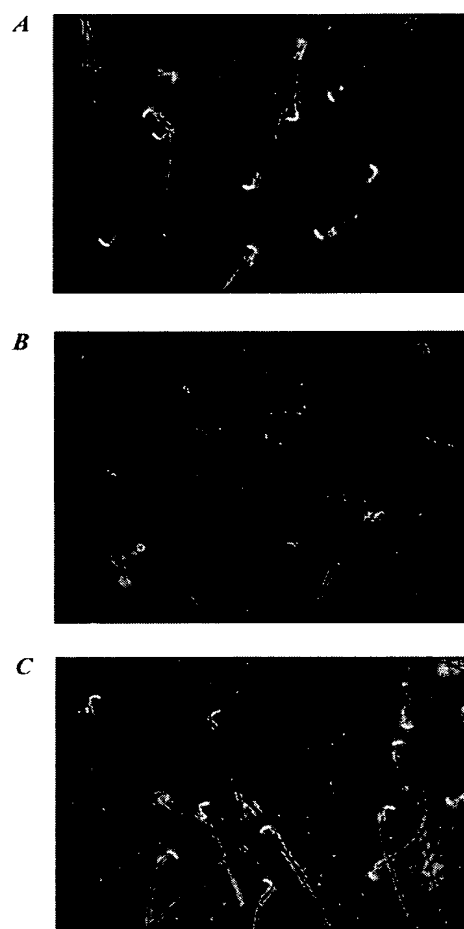
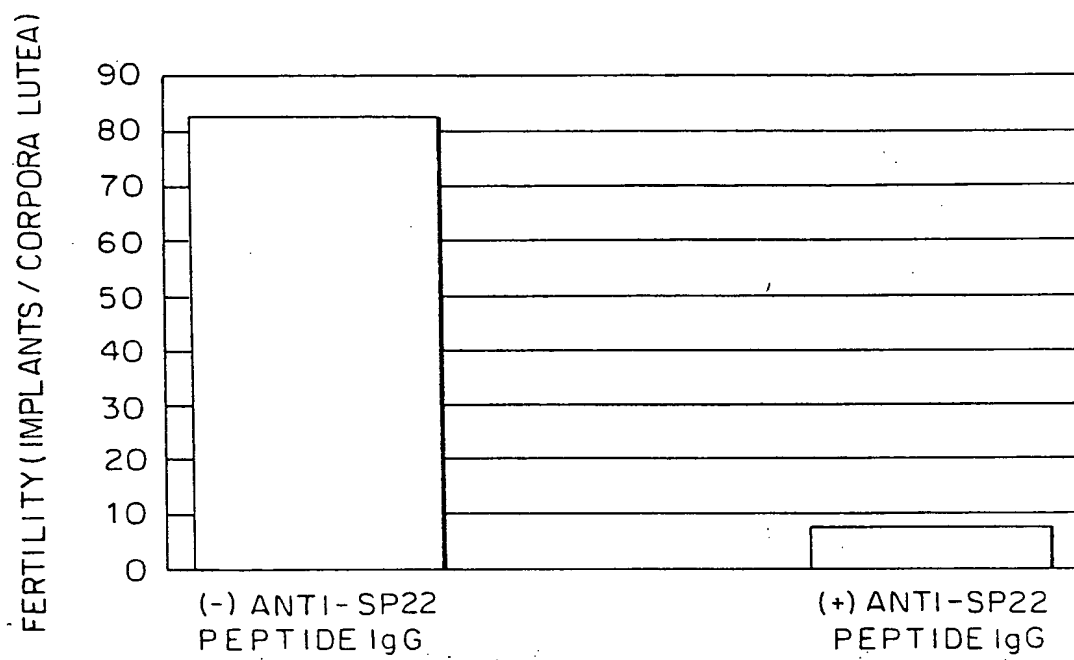


FIG. 11



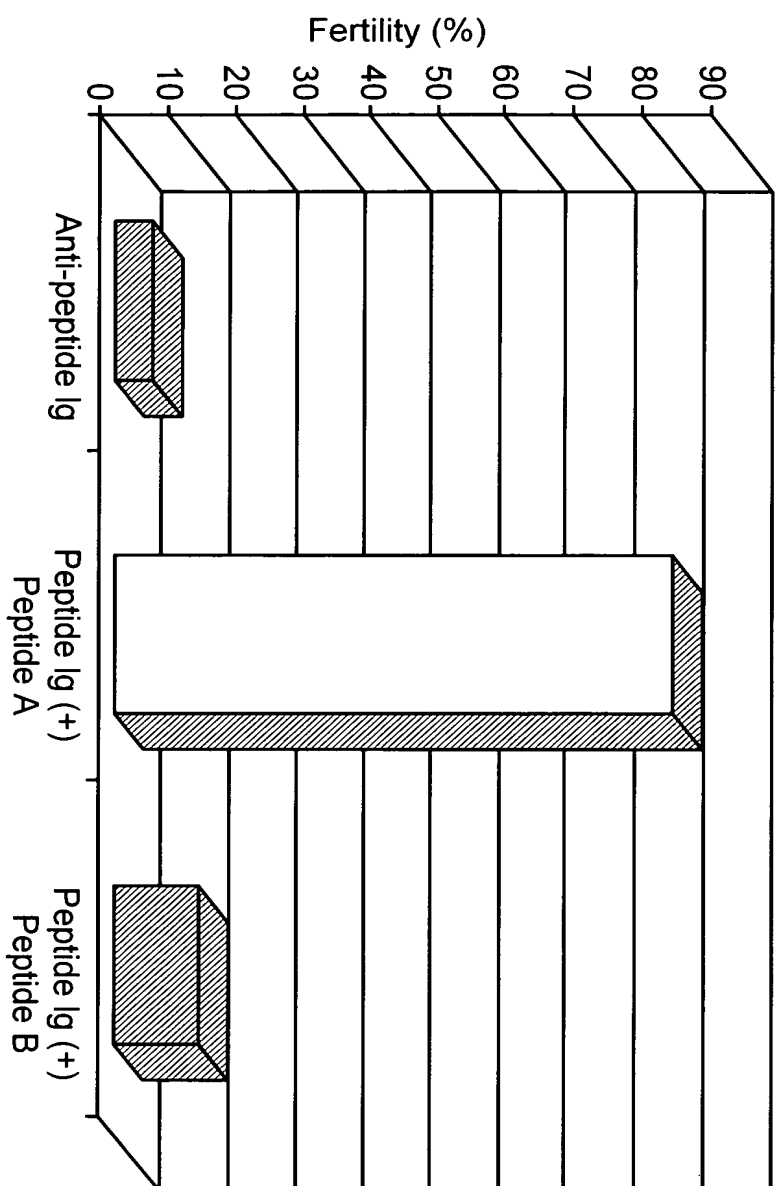


FIG. 12

FIG. 13-1
FIG. 13-2
FIG. 13-3

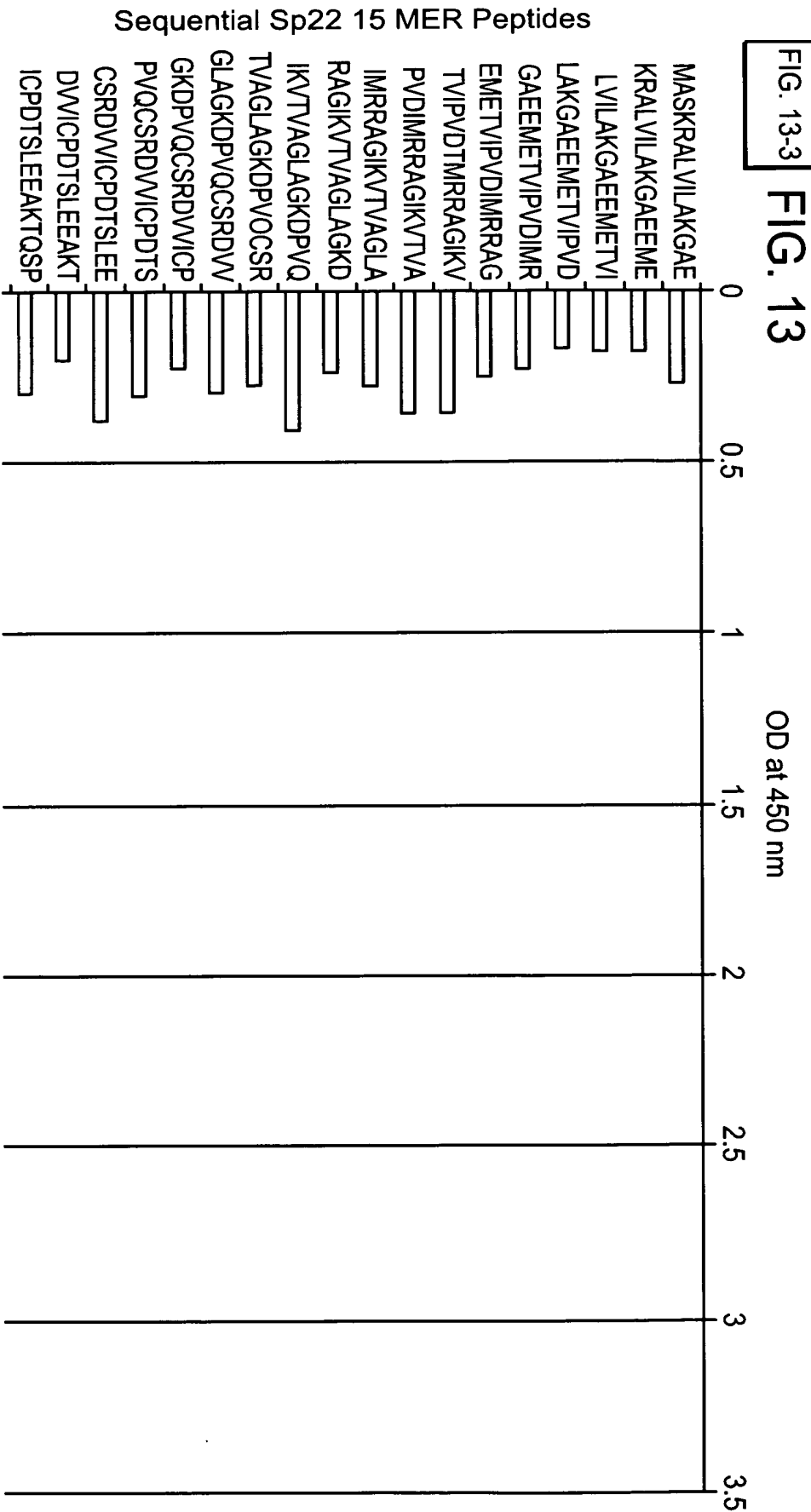


FIG. 13-1

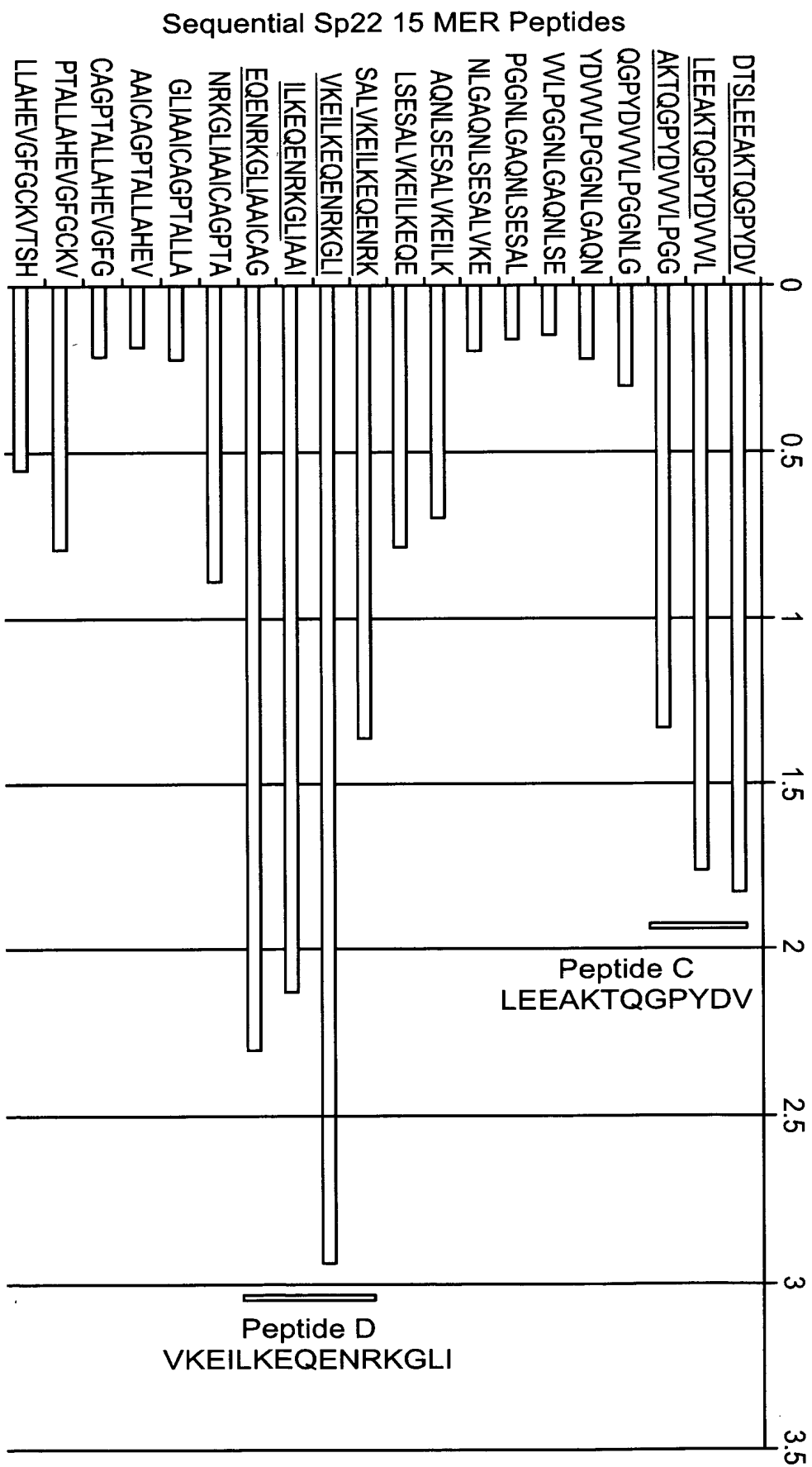


FIG. 13-2

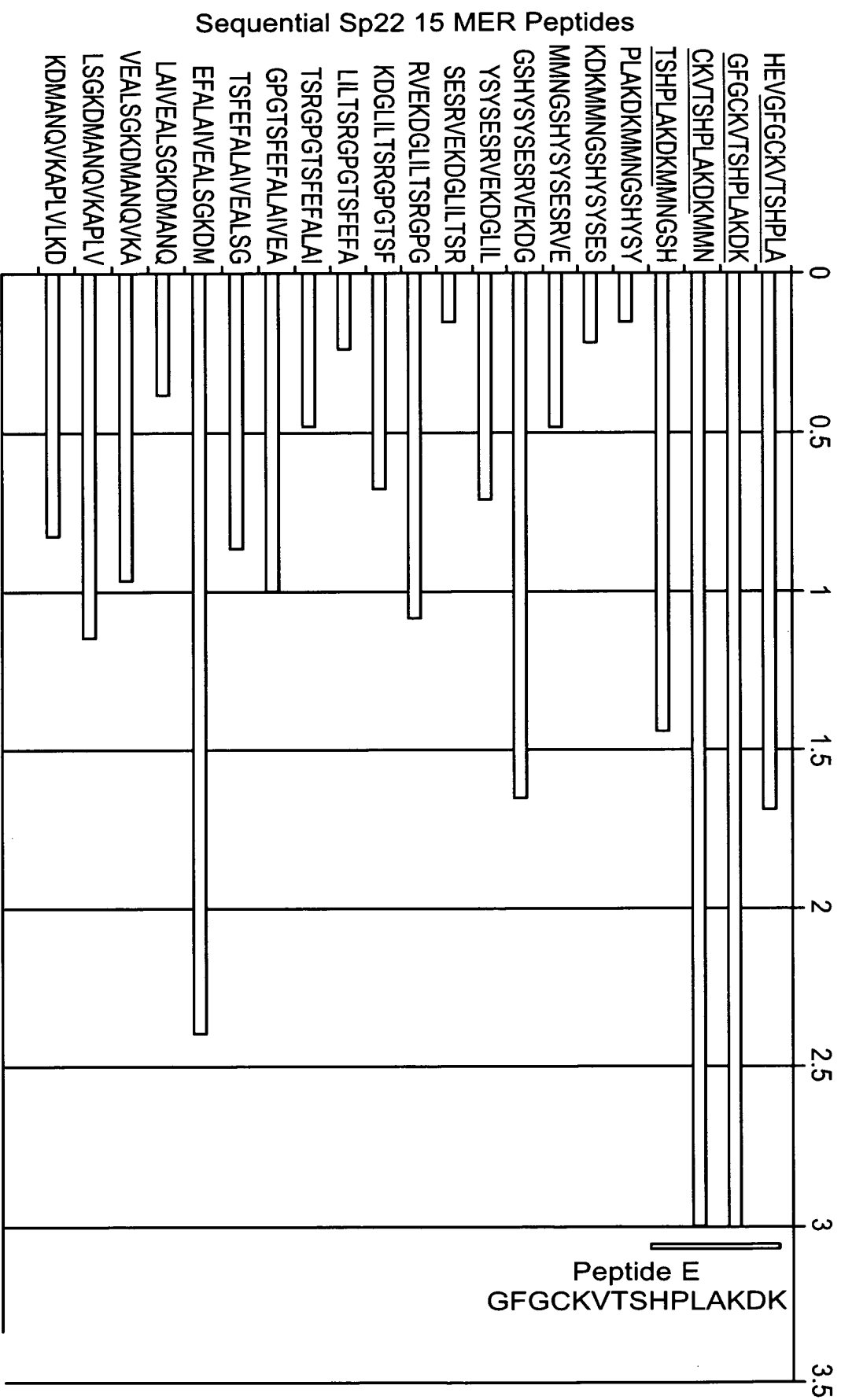


FIG. 13-3

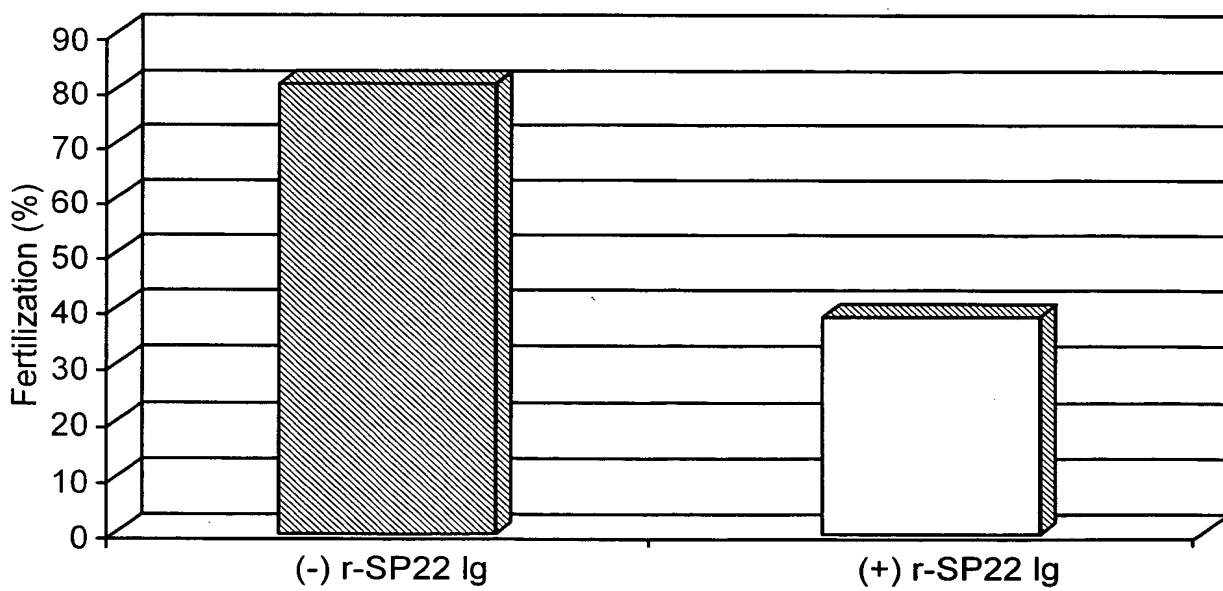
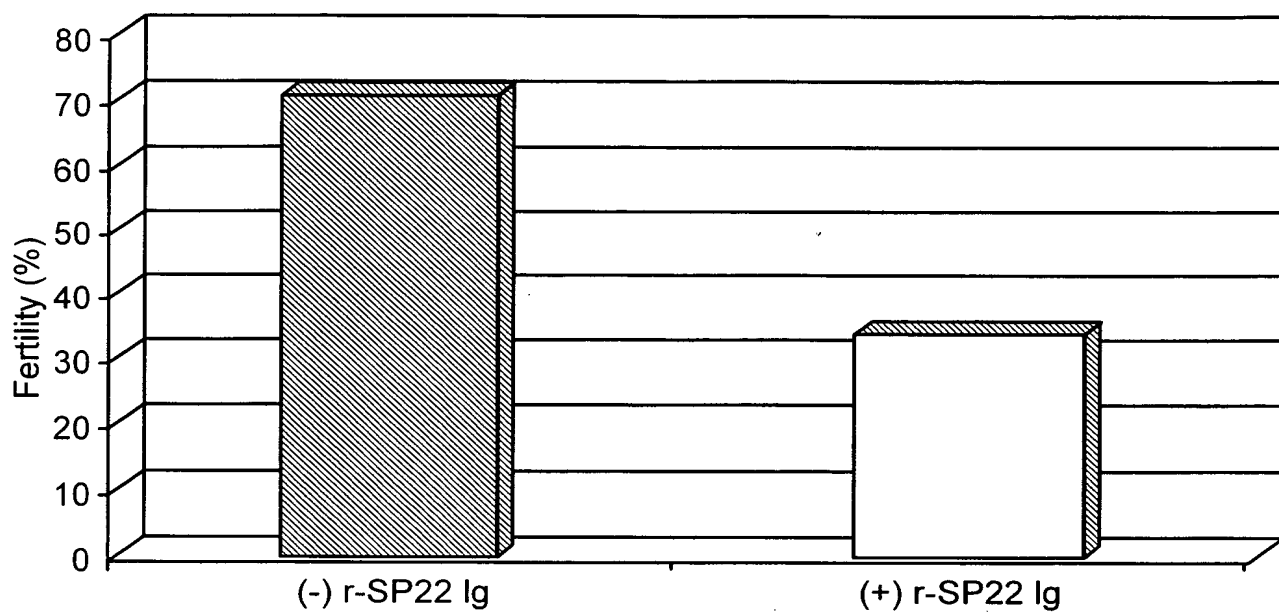


FIG. 14

FIG. 15

1	xxatggcatccaaaagagctctggtcatc	66
1	X X X X X X X X X X X X X M A S K R A L V I	22
67	ctagccaaaggagcagaggagatggagacagtgattcctgtggacatcatgcggcgagctgggatt	132
23	L A K G A E E M E T V I P V D I M R R A G I	44
133	aaagtcaccgttgcaggcttggtctgggaaggacccccgtgcagtgtagccgtgatgtagtgtttgt	198
45	K V T V A G L A G K D P V Q C S R D V V I C	66
199	ccggataccagtctgtgaagaagcaaaaaacacagggaccatac gatgtggttgttcttcaggagga	264
67	P D T S L E E A K T Q G P Y D V V V L P G G	88
265	aatctgggtgcacagaacttatctgagtcggctttggtgaaggagatcctcaaggagcaggagAAC	330
89	N L G A Q N L S E S A L V K E I L K E Q E N	110
331	aggaagggcctcatagctgccatctgtgcgggtcctacggccctgctggctcacgaagtaggcttt	396
111	R K G L I A A I C A G P T A L L A H E V G F	132
397	ggatgcaaggttacatcgcacccattggctaaggacaaaatgatgaacggcagtcactacagctac	462
133	G C K V T S H P L A K D K M M N G S H Y S Y	154
463	tcagagagccgtgtggagaaggacggcctcctcctcaccagccgtgggcctgggaccagcttcgag	528
155	S E S R V E K D G L I L T S R G P G T S F E	176
528	tttgcgctggccattgttgaggcactcagtggaaggacatggctaaccaagtgaaggccccgctt	594
177	F A L A I V E A L S G K D M A N Q V K A P L	198
595	gttctcaaagactagagagcccaagccctggaccctggacccccaggctgagcaggcatttgaagc	660
199	V L K D *	202
661	ccactagagagaccacagcccagtgaaacctggcatttgaagccactagtgtgtccacagcccagt	726
727	gaacctcaggaactaacgtgtgaagtagcccgctgctcaggaatctcgccctggctctgtactatt	792
793	ctgagccttgcctagtagaataaacagttccccaaagctc	830

FIG. 16

1 gctgtgcagagccgtctggcaggggtgacctcctaaagggatattccatctttattaatcattag 65
 66 tagtgtgggtcagagacttagcaccattgggtctcccccaacctgggtccagacatttcagcagttta 130
 131 tcggaacagcaacaacagcaacaaaaccttcaaaatttacaagtctttaagaaatagaaATGgca 195
 1 M A 2
 196 tccaaaagagctctgggtcatcctagccaaaggagcagaggagatggagacagtgattcctgtgga 260
 3 S K R A L V I L A K G A E E M E T V I P V D 24
 261 caccatgcggcgagctgggattaaagtcaccggttgaggcttggtgggaaggaccccgtgcagt 325
 25 I M R R A G I K V T V A G L A G K D P V Q 45
 326 gtagccgtgatgtagtgatttgtccggataccagtcctggaagaagcaaaaacacagggaccatac 390
 46 C S R D V V I C P D T S L E E A K T Q G P Y 67
 391 gatgtgggtgtttcttccaggaggaaatctgggtgcacagaacttatctgagtcgggctttggtgaa 455
 68 D V V V L P G G N L G A Q N L S E S A L V K 89
 456 ggagatcctcaaggagcaggagaacaggaagggcctcatagctgccatctgtgcgggtcctacgg 520
 90 E I L K E Q E N R K G L I A A I C A G P T 110
 521 ccctgctgggtcacgaagtaggctttggatgcaaggttacatcgcacccattggctaaggacaaa 585
 111 A L L A F E V G F G C K V T S H P L A K D K 132
 586 atgatgaacggcagtcactacagctactcagagagccgtgtggagaaggacggcctcatcctcac 650
 133 M M N G S H Y S Y S E S R V E K D G L I L T 154
 651 cagccgtgggcctgggaccagcttcgagtttgcgctggccattgtggaggcactcagtggcaagg 715
 155 S R G P G T S F E F A L A I V E A L S G K 175
 716 acatggctaaccaagtgaaggccccgcttgttctcaaagacTAGagagcccaagccctggaccct 780
 176 D M A N Q V K A P L V L K D 189
 781 ggacccccaggctgagcaggcattggaagcccactagtgtgtccacagcccagtgaacctggcat 845
 846 tggaagcccactagtgtgtccacagcccagtgaacctcaggaactaacgtgtgaagtagcccgct 910
 911 gctcaggaatctcgccctggctctgtactattctgagccttgctagtagaataaacagttcccca 975